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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

11/13/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

PARSONS, THOMAS H

ART UNIT PAPER NUMBER

1795

DATE MAILED: 11/13/2009

	APPLICATION NO. FILING DATE FIRST NAM		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/577,987	05/03/2006	Hironari Takase	127840	4964

TITLE OF INVENTION: FUEL CELL, DISASSEMBLY METHOD THEREOF, AND SEPARATORS USED THEREIN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

ppropriate. All further ndicated unless correcte naintenance fee notifica	ed below or directed oth	g the Patent, advance of erwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND]	Fee(s paper) Transmittal. This s. Each additional	certif paper	icate cannot be used for	domestic mailings of the or any other accompanying at or formal drawing, must		
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OLIFF & BER P.O. BOX 32085 ALEXANDRIA] ; ;	I here State addre trans	eby certify that this Postal Service was sed to the Mail mitted to the USP1	s Fee(s ith suf Stop O (57	s) Transmittal is being ficient postage for first ISSUE FEE address a 1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.	
			ſ					(Depositor's name)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/577,987	05/03/2006		Hironari Takase				127840	4964
	·	EMBLY METHOD THE					TOTAL FEE(s) DUE	T PARTE DATE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	_	\$0 \$1810		\$1810	02/16/2010
EXAM		ART UNIT	CLASS-SUBCLASS					
PARSONS,		1795	429-035000					
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on th	e pa	ent. If an assigne ssignment.			ocument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity Government
a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
_ ~ .	tus (from status indicated s SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no	long	er claiming SMAI	LENT	ΓΙΤΥ status. See 37 CF	(P. 1.27(a)(2)
NOTE: The Issue Fee an	d Publication Fee (if requ		d from anyone other th	_	-			e assignee or other party in
Authorized Signature					Date			
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25944 75	25944 7590 11/13/2009			EXAMINER			
OLIFF & BERR	IDGE, PLC	PARSONS, THOMAS H					
P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER			
			1795				
		DATE MAILED: 11/13/2009					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 776 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 776 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

		The second second	
	Application No.	Applicant(s)	
Nation of Allowability	10/577,987	TAKASE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	THOMAS H. PARSONS	1795	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS	
1. \boxtimes This communication is responsive to <u>the Amendment filed</u>	<u>30 September 2009.</u> .		
2. ☑ The allowed claim(s) is/are <u>1-35 and 38-87</u> .			
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received. been received in Application No.		
3. Copies of the certified copies of the priority do	cuments have been received in thi	s national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers	• ,	D-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			
Attachment(s)	5 Notice of Informati	Detect Application	
1. Notice of References Cited (PTO-892)	5. Notice of Informal		
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	6. ☐ Interview Summal Paper No./Mail D 7. ☑ Examiner's Amen	ate	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		nent of Reasons for Allowance	
of Biological Material	 9.		

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Response to Amendment

This is in response to the Amendment filed 30 September 2009.

(Previous) DETAILED ACTION

Specification

1. The objections to the disclosure because of minor informalities have been **withdrawn** in view of Applicants' Amendment.

Drawings

2. The objection to the drawings as failing to comply with 37 CFR 1.84(p)(5) because they include reference character(s) not mentioned in the description has been **withdrawn** in view of Applicants' Amendment.

Abstract

3. The objection to the abstract for exceeding 150 words in length has been **withdrawn** in view of Applicants' Amendment.

Claim Rejections - 35 USC § 112

4. The rejections of claims 11, 12 and 19 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention have been **withdrawn** in view of Applicants' Amendment.

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Claim Rejections - 35 USC § 103

5. The rejections of claims 36-37 under 35 U.S.C. 103(a) as being unpatentable over Handley et al. (Impact of the European Union vehicle waste directive on end-of-life options for polymer electrolyte fuel cells) have been **withdrawn** in view of Applicants' Amendment.

REASONS FOR ALLOWANCE

6. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of *claims 1-35* is the recitation in claim 1 of a fuel cell comprising a breaking guide that is used for breakage of at least one of the separators. The prior art references of record do not teach or suggest a breaking guide in combination with fuel cell separators.

The primary reason for the allowance of *claims 38-52* is the recitation in claim 38 of a disassembly method of disassembling a fuel cell which comprises a breaking guide that is used for breakage of at least one of the separators, the disassembly method comprising the step of utilizing the breaking guide to apply an external force from outside of the fuel cell to an outer face of at least one of the separators or the gap between the pair of separators, so as to facilitate disassembly of the fuel cell. The prior art references of record do not teach or suggest a disassembly method comprising a breaking guide in combination with separators to disassemble the fuel cell.

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The primary reason for the allowance of *claim 53* is the recitation therein of wherein a disassembly-facilitating step inserts a cutting tool from outside of the fuel cell into the gap between the pair of separators, so as to apply external force.

The primary reason for the allowance for the allowance of *claim 54* is the recitation therein of wherein the disassembly-facilitating step cuts the sealing member arranged in the gap between the pair of separators with a cutting tool.

The primary reference of record do not teach or suggest a disassembly method comprising a cutting tool in combination with separators to disassembly a fuel cell.

The primary reason for the allowance of *claims 55-59* is the recitation in claim 55 of wherein the disassembly-facilitating step clamps the pair of separators to apply a pressure and successively shifts a pressing position to give warpage of the separators in directions away from each other. The prior art references of record do not teach or suggest a disassembly method comprising clamps in combination with separators to apply a pressure and successively shifts a pressing position to give warpage of the separators in directions away from each other.

The primary reason for the allowance *claims* 60-87 is the recitation in claim 60 of a separator comprising a breaking guide that is formed along periphery of the separator for breakage of the separator. The prior art references of record do not teach or suggest a breaking guide in combination with fuel cell separators.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS H. PARSONS whose telephone number is (571)272-1290. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PATRICK RYAN/ Supervisory Patent Examiner, Art Unit 1795 /Thomas H Parsons/ Examiner, Art Unit 1795